

## Project Phases: AGIA Gas Pipeline Construction

**Phase 1:** Phase 1 activities kick-off the initial capital development phase of the gas pipeline project. Key activities include preliminary project definition and conducting feasibility engineering and environmental studies as well as starting stakeholder engagement. Information from initial discussions with major stakeholders will be used during this phase the pipeline operator, to help prepare the preliminary project definition . This phase culminates with having all the necessary information ready to start the formal Open Season process.

**Phase 2:** Phase 2, will have two primary activities; first, conducting the Open Season process and second, preparation of the major permits that will be submitted to the Federal Energy Regulatory Commission (FERC). During the Open Season process the pipeline company will present to all potential gas shippers preliminary information on the proposed pipeline along with proposed commercial agreements. Based upon the proposal the gas shippers will make the binding agreements. Concurrently the frontend engineering (FEED), environmental and stakeholder engagement activities will continue developing the major permit applications required by FERC. These documents are finalized after completion of the Open Season (committed gas volumes are known). Both the Open Season and the FERC permit application are processes that need to be done in such a way as to comply with the requirements of FERC including commercial agreements, information on project definition, construction methodology, regulatory documentation, restoration and mitigation plans and stakeholder engagement.

**Phase 3:** Phase 3 starts with the submission to FERC the required permit application and supporting documentation for the project. Once FERC has accepted the application as complete they will take about 18 months to review. Concurrent with FERC's review process the detailed project planning and design work will begin. There will be a question and answer period with FERC regarding the application. Engineering design will progress to the point where long lead equipment and contracts will be bid out with the intention of awarding once all major permits and final approvals are received.

Road and Bridge Construction: Prior to the start of the preconstruction phase there will need to be, upgrading, replacement, maintenance and repair operations associated with the primary roads and bridges along the corridors to be used by the project to ensure the infrastructure systems are up to modern standards, ready for the demands of the pipeline project

construction. Likewise, activities involving the repair and replacement of damaged roadways and bridges will likely occur for several years subsequent to the end of the construction phase.

**Preconstruction and Construction Phase:** There is significant overlap among preconstruction and construction activities. Preconstruction activities include completing detailed design, procurement, transportation of material and equipment to staging areas near the pipeline right of way (ROW). Fabrication of the major modules will start. Also during preconstruction clearing right-of-ways for the pipeline, creating needed access roads and pads for the camps and compressor stations, installing camps at their initial sites and general preparation of the area for the activities required to begin building the pipeline. Construction includes not only the laying of the pipeline, but also construction of the compressor stations and moving camps / staging materials / construction equipment along the ROW as work progresses, transportation / assembly of modularized facilities and infrastructure for the gas treatment plant on the North Slope.

**Operations:** Operations covers the commissioning and subsequent operations of the gas treatment facilities and pipeline. During this time, the physical systems will be brought online, and treated gas will begin flowing through the pipeline to markets. There will be a restoration period during which time the vegetation and ground along the pipeline ROW will be closely monitored and maintained. Once commissioning and testing are completed, workers will remain to oversee the production and transport of the product.